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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,827	03/23/2004	Yoji Nagase	1324.70101	4226
7590 11/13/2008				
Patrick G. Burns, Esq. GREER, BURNS & CRAIN, LTD. Suite 2500 300 South Wacker Dr. Chicago, IL 60606				
EXAMINER				
CHOW, YUK				
ART UNIT		PAPER NUMBER		
2629				
MAIL DATE		DELIVERY MODE		
11/13/2008		PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/806,827

**Applicant(s)**

NAGASE, YOJI

**Examiner**

YUK CHOW

**Art Unit**

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 14 October 2008.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-12 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☒ Claim(s) 5-10 is/are allowed.  
6) ☒ Claim(s) 1-4, 11-12 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-893)  
4) ☐ Interview Summary (PTO-413)  
5) ☐ Notice of Informal Patent Application  
6) ☐ Other: \_\_\_\_\_  
Paper No(s)/Mail Date \_\_\_\_\_

**DETAILED ACTION**

***Response to Amendment***

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 3 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Yoon (US 6,005,542).

As to **claim 3**, Yoon discloses a method of driving an active matrix type liquid crystal display panel, comprising the step of:

performing a pre-scanning and a main scanning to each horizontal line (see Fig. 8 and 10);

wherein a value of an on-voltage of a gate signal in the pre-scanning is different from a value of an on-voltage of the gate signal in the main scanning (see Fig. 8 and 10, on-voltage in first pulse is different from the following one).

As to **claim 11**, Yoon discloses a method of driving an active matrix type liquid crystal display panel, comprising the step of:

performing a pre-scanning and a main scanning to each horizontal line;

wherein a value of a gate-off voltage between the pre-scanning period and the main scanning period is set to be higher than a value of the gate-off voltage after the main scanning period (see Fig. 8 and 10, gate-off voltage,  $V_{\text{gate}} + \Delta V_{\text{gl}}$  is set to be higher than gate-off voltage  $V_{\text{gate}}$  after the main scanning period (a).).

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1, 2, 4 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Matsubara et al.(US 6,549,187).

As to **claim 1**, Matsubara discloses a method of driving an active matrix type liquid crystal display panel during horizontal scanning periods, using a data signal whose polarity is inverted at the beginning and end of each horizontal scanning period, the driving method also using a gate signal which is raised and broken down at spaced intervals, a selected horizontal scanning period occurring at least in part while the gate signal is raised, comprising the step of:

performing a pre-scanning and a main scanning to each horizontal line using the gate signal (see Fig. 11a);

wherein the gate signal is raised in the main scanning at a timing on or after a first inversion of the data signal (see Fig. 11a, gate signal (101) is raised at a timing on a first inversion) occurring during the selected horizontal scanning period, and the gate signal is broken down in the main scanning at a timing prior to the next following inversion of the data signal occurring during the selected horizontal scanning period (See Fig. 11a, 101 is broken down before the next inversion occurs).

As to **claim 2**, Matsubara discloses a method of driving a liquid crystal display panel according to claim 1,

wherein the timing for raising the gate signal relative to inverting the polarity of the data signal in the pre-scanning is the same as the timing for raising the gate signal relative to inverting the polarity of the data signal in the main scanning (See Fig. 8a, timing for 83 is the same as in 81.).

As to **claim 4**, Matsubara discloses a method of driving an active matrix type liquid crystal display panel, comprising the step of:

performing a pre-scanning and a main scanning to each horizontal line (Fig. 3(1H));

wherein a length between timing of raising of a gate signal and timing of next following breaking down of the gate signal in the pre-scanning period is different from that in the main scanning period (See Fig. 3, gate signal 31 and gate signal 32 are not the same.).

As to **claim 12**, Matsubara discloses an active matrix type liquid crystal display panel comprising a drive circuit driven by a method of driving a liquid crystal display panel according to claim 1 (see Abstract).

***Allowable Subject Matter***

6. Claims 5-10 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: As to independent claim 5, cited reference does not teach or suggest claimed subject matter: a value of a predetermined pre-writing data voltage that is a data voltage in the pre-writing data voltage period is different from a value of a display data voltage that is a data voltage in said another period.

Dependent claims 6-10 are also allowed.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YUK CHOW whose telephone number is (571)270-1544. The examiner can normally be reached on 8-6 M-TH E.T..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amare Mengistu can be reached on 571 272-7674. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Y. C./

Examiner, Art Unit 2629

/Amare Mengistu/

Supervisory Patent Examiner, Art Unit 2629